

Geriatric Emergencies

Demographic Imperative

- Since 1900, life expectancy has increased 43% for all ages
 - 1900: 50 years
 - 1988: 75 years
- Persons > 65 are fastest growing group in U.S.
 - 1900: 4% of population
 - 1980: 11% of population
 - 2030: 22% of population

Demographic Imperative

- More Americans now are over 65 than under 18
- Trend has led to increased incidence of chronic disease

The Elderly: A Profile

- Age
- Gender
- Race
- Education
- Geographic Distribution
- Living Arrangements
- Income/Assets/Poverty

Age

- Older population is becoming older
 - 65-74 age group: 8 times larger than in 1900
 - 75-84 age group: 13 times larger
 - 85+ age group: 24 times larger
- Persons over 85 are fastest growing population group

Gender

- Number of males per 100 females is decreasing
 - 50% of difference is genetic
 - 50% due to social role differences

Race

- 1989
 - 90% white
 - 8% black
 - 2% others

Education

- 54% have completed high school
- 11% have 4 or more years of college
- Persons over 65 are one of the best educated segments of the population

Geographic Distribution

- 52% live in nine states

California

Illinois

New York

Ohio

Florida

Michigan

Pennsylvania

New Jersey

Texas

Living Arrangements

- 5% in nursing homes

–65-74: 1%

–75-84: 6%

–>85: 22%

Income/Assets/Poverty

- Median net worth:
 - \$60,300 vs. \$32,000 for general population
- 3.4 million below poverty (11.4%)
- There is almost no elderly “middle class”

Health and Health Care

- Chronic illness is common
 - Arthritis 49%
 - Hypertension 37%
 - Impaired Hearing 32%
 - Heart Disease 30%
 - Cataracts 17%
 - Sinusitis 17%
 - Orthopedic 9%
 - Impaired Vision 9%
 - Diabetes 9%

Health and Health Care

- 1988
- Older adults at 12.5% of population accounted for
 - 33% of all hospital stays
 - 44% of all hospital days of care
 - 36% of total health care expenditures

Anatomy and Physiology of Aging

General Changes

- Total body water decreases
 - 61% at 25
 - <53% at 70
- Total body fat decreases
 - Subcutaneous fat deposits decrease
 - Fat deposits in organs increase

General Changes

- Generalized body tissue fibrosis
- Progressive loss of homeostatic systems ability to adjust

Specific Changes

- Height
- Weight
- Skin
- Musculoskeletal
- Respiratory System
- Cardiovascular System
- Renal System
- Nervous System

Height

- Decrease of 2 to 3 inches
 - Kyphosis (spinal curvature)
 - Spinal disk narrowing
 - Knee/hip joint flexion
 - Joint space narrowing

Weight

- Males
 - Increases to mid 50's, then decreases
- Females
 - Increases to mid 60's, then decreases

Skin

- Dermis thins by 20%; blood supply decreases
 - What effect on severity of burn injuries?
 - What effect on wound healing?
 - What effect on tolerance of cold?
- Sweat glands decrease; sweating decreases
 - What effect on tolerance of heat?

Musculoskeletal

- Decreased muscle weight relative to body weight
- Cartilage loses ability to adapt to repetitive stress
- Increased bone resorption; especially in females
- What effect in trauma?

Respiratory System

- Vital capacity decreases
- Maximum breathing capacity decreases 60%
- Maximum O₂ uptake decreases 70%

What effect on respiratory reserve capacity?

What effect in chest trauma?

What effect in acute respiratory disease?

Cardiovascular System

- Stroke volume declines
- Speed/force of myocardial contraction decreases
- Cardiac conducting system deteriorates
- What effect on myocardial reserve capacity?

Cardiovascular System

- Fibrosis occurs throughout blood vessels
- What effect on ability to control PVR?
- What effect on ability to regulate temperature?

Renal System

- 30 to 40% decrease in number of functioning nephrons
- 50% decrease in renal blood flow
- What effect on elimination of drugs?

Nervous System

- 6 to 7% brain weight decrease
- 45% brain cell loss in some areas
- 15 to 20% blood flow reduction
- 15% conduction speed decrease
- What effect on pain sensation?

Incontinence

- Common problem
 - Urinary: 15% (home) to 50% (nursing home)
 - Fecal: 16 to 60% (nursing home)
- Can lead to rashes, skin infections, ulcer formation, UTIs, sepsis, falls, fractures
- Causes include anatomical changes, underlying disease processes, medications
- Respect patient's modesty and dignity

Problems with Elimination

- May indicate serious underlying illness
- Straining can lead to TIAs, syncope
- Consider drugs as possible cause
 - Opiates
 - Anticholinergics (antidepressants, antihistamines, muscle relaxants, antiparkinson drugs)
 - Cation containing agents (antacids, iron, calcium supplements)
 - Anticonvulsants
 - Diuretics

Assessment of the Elderly

Complicating Factors

- Variability
- Response to illness
- Presence of multiple pathology
- Altered illness/injury presentation
- Communication problems
- Polypharmacy

Variability

- Elderly are more heterogeneous than younger people

Response to Illness

- Seek assistance for only small part of symptoms
- Perceive important symptoms as “getting old”
- Delay seeking treatment
- Trivialize chief complaints

Multiple Pathology

- Of patients >65:
 - 85% have one chronic disease
 - 30% have ≥ 3 chronic diseases

Multiple Pathology

- One system's acute illness may put stress on another's reserve capacity
- Symptoms of one disease process may mask another disease
- Treatment of one disease process may mask another

Altered Presentations

- Pain diminished, absent
- Temperature regulation depressed
 - What effect on environmental illness?
 - What effect on fever in infection?
- Depressed thirst mechanisms
 - What effect on hydration status?

Altered Presentations

- Increased susceptibility to
 - Confusion
 - Restlessness
 - Hallucinations
- Increased susceptibility to generalized deterioration

Altered Presentations

- Vague, poorly defined chief complaints
- “The organs of the aged do not cry”

Communication Problems

- Diminished
 - Sight
 - Hearing
 - Mental faculties
- Depression
- Poor cooperation/limited mobility

Polypharmacy

- 30% of geriatric hospitalizations are drug induced

History Taking

- Probe for significant complaints/symptoms
 - Chief complaint may be trivial/non-specific
 - Patient may not volunteer information

History Taking

- Dealing with communication difficulties
 - Talk to patient first
 - If possible, talk to patient alone
 - Formal, respectful approach
 - Stay near middle of field of vision

History Taking

- Dealing with communication difficulties
 - Light sources behind patient
 - Face patient
 - Reduce background noise
 - Speak slowly
 - Enunciate clearly

History Taking

- Dealing with communication difficulties
 - Do not assume deafness
 - Do not shout
 - Do not assume confusion, disorientation
= “senility”

History Taking

- Obtain thorough medication history
 - More than one MD
 - More than one pharmacy
 - Multiple medications
 - Old vs current medications
 - Shared medications
 - Over the counter medications

Physical Examination

- Consider cold sensitivity; examine in warm area
- May fatigue easily
- May have difficulty with positioning
- Consider modesty
- Decreased pain sensation requires thorough exam

Physical Examination

If they say something hurts,
evaluate carefully!

Physical Examination

- Misleading findings
 - Inelastic skin mimics decreased turgor;
Assess over cheeks
 - Mouth breathing mimics dehydration
 - Pedal edema from inactivity, dependent positioning of feet
 - Non-pathological rales in lung bases
 - Peripheral pulses difficult to feel

Specific Problems

Respiratory Distress

- Emphysema
- Chronic Bronchitis
- Asthma
- Pulmonary Embolism
- Pneumonia
- Acute MI
- Congestive Heart Failure
- Pulmonary Edema

Respiratory Distress

- Pneumonia
 - Fourth leading cause of death
 - 50x more common in nursing home pts
 - May have atypical presentation
 - Cough, fever may be absent
 - Possibly abdominal pain rather than chest pain

Respiratory Distress

- COPD
 - Fifth leading cause of death in males from age 55 to 74
 - Consider possible spontaneous pneumothorax in COPD patient who suddenly decompensates

Respiratory Distress

- Pulmonary Embolism
 - Sudden dyspnea + decreased mobility + no other quickly identified causes = ? pulmonary embolism

Respiratory Distress

- Dyspnea may be primary symptom of silent MI

Respiratory Distress

- Lung Cancer
 - U.S. has highest incidence in world
 - 65% of cases occur in people >65
 - Dyspnea, hemoptysis, chronic cough, weight loss

Cardiovascular Disease

- Acute Myocardial Infarction
 - Silent MI much more common in elderly
 - May present:
 - as dyspnea from CHF
 - with signs/symptoms of acute abdomen, including tenderness and rigidity

Cardiovascular Disease

- Silent acute myocardial infarction
 - Weakness
 - Fatigue
 - Syncope
 - Incontinence
 - Transient ischemic attacks/stroke
 - Confusion

Cardiovascular Disease

- Congestive Heart Failure
 - Most common diagnosis in hospitalized patients >65
 - Signs and Symptoms
 - Nocturia
 - Paroxysmal nocturnal confusion
 - Large blisters on legs, especially if patient sleeps sitting up

Cardiovascular Disease

Congestive Heart Failure

Bed-ridden patients may have fluid accumulations over sacral area rather than in feet, legs

Cardiovascular Disease

- Dysrhythmias
 - Extreme rates not tolerated as well; may lead to CHF, TIAs
 - Sudden onset = ? silent MI
 - Consider hypokalemia, hypomagnesemia, especially in patients on diuretics

Cardiovascular Disease

- Dysrhythmias
 - Consider drug toxicity
 - Digitalis
 - Beta blockers
 - Calcium channel blockers
 - Antiarrhythmics (proarrhythmic effects)

Cardiovascular Disease

- Aortic Dissection/Aneurysm
 - Thoracic: Tearing chest pain, often associated with neurological S/S; asymmetry of upper extremity pulses, BPs
 - Abdominal: Tearing abdominal pain; pulsating mass; unexplained low back pain; lower extremity weakness, numbness, pallor, coolness; diminished lower extremity pulses

Cardiovascular Disease

- Hypertension
 - Present in 50% of persons >65
 - Asymptomatic or associated with non-specific symptoms
 - Anti-hypertensive medications may mask or complicate coexisting diseases

Neurological Disorders

Syncope

- Altered mental status caused by transient interruption or decrease in cerebral blood flow
- Morbidity/mortality higher than in younger people

Syncope

- Cardiogenic
 - Silent MI
 - Stokes-Adams attack
 - Tachyarrhythmias
 - Bradyarrhythmias
 - Sick sinus syndrome
 - Beta blocking agents

Syncope

- Transient ischemic attack
- Seizure disorders
- Vasomotor depression
 - Diabetic neuropathy
 - Antihypertensive agents
 - Vasodilators
 - Diuretics

Syncope

- Consider volume depletion
 - Depressed thirst/inadequate fluid intake
 - Occult bleeding

Cerebrovascular Accident

- Emboli/thrombi more common
 - Atherosclerosis
 - Hypertension
 - Immobility/limb paralysis
 - CHF
 - Chronic A-fib

Cerebrovascular Accident

- Signs may be subtle:
 - Dizziness
 - Behavior change
 - Altered affect
 - Headache, especially if localized
- Suspect CVA in any older person with altered mental status

Cerebrovascular Accident

- TIA's common
 - Frequent cause of syncope
 - One third will progress to CVA

Cerebrovascular Accident

- Cardiogenic mechanisms may cause TIAs/CVAs
- Monitor EKG in all patients with neurologic symptoms

Cerebrovascular Accident

- Symptoms may be due to intracranial bleeds from head trauma
- Onset may be delayed

Seizures

- All first time seizures in geriatric population are danger sign

Seizures

- Possible causes
 - CVA
 - Syncope (transient hypoperfusion)
 - Transient arrhythmias
 - Alcohol or drug withdrawal
 - Tumors
 - Head trauma (onset may be delayed)
 - Hypoglycemia

Parkinson's Disease

- Fourth most common degenerative disease in elderly
- Affects basal ganglia of brain
- Primary vs. secondary types
- Pill-rolling tremors; muscle rigidity; shuffling gait; mask-like facial expression; slow, monotone voice; anxiety; depression

Dementia and Delirium

- ♦ 15% of elderly have some degree of dementia or delirium
 - Dementia
 - Structural origin
 - Chronic
 - Slowly progressive
 - Irreversible
 - Impairs memory
 - Global cognitive deficits
 - Delirium
 - Metabolic origin
 - Rapid onset
 - Fluctuating course
 - Reversible
 - Impairs attention
 - Focal cognitive deficits

Dementia and Delirium

- Distinguish between acute delirium and chronic dementia
- Never assume acute events are due to “senility”

Dementia and Delirium

■ Possible causes of delirium

- | | |
|---|--------------------------|
| – Head injury with subdural hematoma | – CNS Infections |
| – Postconcussion syndrome | – Fever |
| – Tumor | – CHF |
| – Alcohol or drug intoxication/withdrawal | – Hypoglycemia |
| | – Endocrinopathies |
| | – Electrolyte imbalances |
| | – Hypoxia |
| | – Drug interactions |

Dementia and Delirium

- Alzheimer's Disease
 - Most common cause of dementia in elderly
 - Early stage: Loss of recent memory, inability to learn, mood swings, personality changes, aggression, hostility, poor judgment
 - Intermediate stage: Complete inability to learn, wandering, increased falls, loss of self-care ability
 - Terminal stage: Inability to walk, loss of bowel/bladder control, loss of ability to eat/swallow

Endocrine Disorders

Diabetes Mellitus

- 20% of elderly have diabetes (primarily Type II)
- 40% have glucose intolerance
- Produces increased risk of atherosclerosis, peripheral vascular disease, delayed healing, blindness, renal failure

Thyroid Disorders

- 2 to 5% of elderly develop hypothyroidism
- <33% present with typical signs/symptoms
- Common complaints include anorexia, confusion, falls, incontinence, decreased mobility, muscle and joint pain

Thyroid Disorders

- Hyperthyroidism is uncommon in elderly
- May result from thyroid hormone OD
- Common complaints include heat intolerance, atrial fibrillation, weight loss, apathy, abdominal pain, diarrhea, exhaustion, depression

GI Disorders

GI Disorders

- Abdominal pain frequently indicates surgical emergency
- May present only with:
 - Altered mental status, or
 - Unexplained signs of shock

GI Disorders

- Other pathology may mimic acute abdomen
 - Acute MI
 - Pneumonia
 - Genitourinary/retroperitoneal disease
 - Metabolic disease

GI Disorders

- Most common problem is GI hemorrhage

GI Disorders

- Common GI bleed causes include:
 - Peptic ulcer
 - Gastritis
 - Esophageal varices
 - Mallory-Weiss syndrome
 - NSAID abuse
 - Diverticulosis
 - Tumors
 - Ischemic colitis
 - Arteriovenous malformations

GI Disorders

- GI Bleeding Signs
 - Coffee ground emesis
 - Dark or bloody stool
 - Orthostatic hypotension
 - Confusion
 - Increase in angina symptoms
 - Weakness
 - Dyspnea
- Beta blockers may mask signs/symptoms of GI bleeds!

GI Disorders

- Bowel Obstruction
 - Typically involves small bowel
 - Causes: tumors, surgery, medications, vertebral fractures
 - Diffuse pain, distension, nausea, vomiting, decreased bowel sounds, fever, weakness, shock

GI Disorders

- Mesenteric/Bowel Infarct
 - Risk factors: atherosclerosis, A-fib
 - Bloody diarrhea, tachycardia, abdominal distension
 - Pain out of proportion to physical exam findings
 - Hypotension, peritonitis, sepsis

Skin Disorders

Skin Diseases

- Pruritis (itching) is common complaint
 - May be caused by dermatitis or drying
 - May indicate underlying liver or kidney disease
- Slower healing increases infection risk
- Incidence of fungal infections, herpes zoster increases

Skin Diseases

- Skin disorders may be medication related
 - Beta blockers worsen psoriasis
 - Antibiotics may cause skin eruptions
 - Topical “home remedies” may cause skin disorders
 - Antihistamines, corticosteroids 2 to 3x more likely to provoke adverse reactions

Decubitus Ulcers

- Occur in up to 25% of nursing home patients
- Mostly in people over 70
- Typically below waist, over bony prominences, in bedridden patients

Decubitus Ulcers

- | | |
|--|---|
| <ul style="list-style-type: none">• Risk factors<ul style="list-style-type: none">– Pressure– Altered sensation– Tissue maceration– Decreased activity, mobility– Poor nutrition– Friction or shearing forces | <ul style="list-style-type: none">• Management<ul style="list-style-type: none">– Frequent position changes– Use of draw sheets– Padding of skin before movement– Clean, dry areas of excessive moisture– Clean ulcers with saline, cover with hydrocolloid or hydrogel dressings– Loosely pack severe ulcers with loosely woven, saline moistened gauze |
|--|---|

Musculoskeletal Disorders

Osteoarthritis

- Leading cause of disability in elderly
- Joint pain, worsened by movement
- Diminished mobility, joint deformity, crepitus, tenderness
- Immobility can worsen condition
- Management includes physical therapy, anti-inflammatory drugs, analgesics, surgery

Osteoporosis

- Affects ~20 million Americans
- Accounts for wrist, hip, spinal fractures following falls

Osteoporosis

- Age >50
- Female gender
- Early menopause (<45)
- No estrogen replacement
- Caucasian or Asian
- Low body weight
- Family history
- Late menarche
- Nulliparity
- Use of alcohol, caffeine, cigarettes

Environmental Emergencies

Elderly tolerate temperature extremes poorly

Environmental Emergencies

- Predisposing Factors
 - Poor cardiovascular function
 - Poor nutrition
 - Endocrinopathies, especially thyroid disease
 - Chronic illness, debilitation
 - Drug effects
 - Diuretics
 - Antipsychotics
 - Low, fixed incomes

Environmental Emergencies

High index of suspicion in any patient with altered LOC or vague clinical presentation in hot or cool environment

Toxicology/Pharmacology

- 25% of prescription drug use is by people >65
- By 2030 this will increase to 40%

Toxicology/Pharmacology

- Generally more sensitive to drug effects
- Changes in body mass and fat alter drug distribution
 - Fat soluble drugs distribute more widely
 - Water soluble drugs distribute less widely
- Liver size, blood flow decrease
- Renal filtration rate, tubular function decrease

Toxicology/Pharmacology

- Causes of drug related illness
 - Forgetful/confused/does not understand drug
 - Compliant, but prescribed dose excessive
 - Receives meds from more than one source
 - Resumes use of old meds
 - Uses meds intended for others

Toxicology/Pharmacology

- Causes of drug related illness
 - Does not mention non-prescription drugs
 - Drug abuse (signs/symptoms are from withdrawal)
 - Ran out of meds or reduced dose for financial reasons
 - Added a drug that impairs or exaggerates effects of drugs already in use
 - Changed smoking, alcohol, or dietary habits

Lidocaine

- Decreased hepatic metabolism causes toxicity
- CNS-related signs, symptoms
 - Numbness, tingling
 - Drowsiness
 - Depression
 - Muscle twitching
 - Seizures

Beta-Blockers

- Can produce depression, lethargy
- Can produce bronchospasm in patients with asthma/COPD
- May cause decreased ventricular contractility, worsening heart failure
- May mask early signs of hypovolemic shock

Diuretics

- Volume depletion
 - Postural hypotension
 - Circulatory collapse
- Hypokalemia
 - Arrhythmias
 - Enhanced digitalis effect

ACE Inhibitors

- Cause vasodilation, diuresis
- Can produce
 - Hypovolemia
 - Hypotension
 - Electrolyte imbalances
 - Nausea, vomiting, headache, fatigue

Digitalis

- 40-60% of patients become toxic
- Usually caused by decreased volume of distribution and clearance
- Digitalis toxicity may result from diuretic-induced hypokalemia

Antidepressants

- Sedation, confusion, lethargy, muscle weakness
- Dry mouth, constipation, urinary retention, confusion
- TCAs may cause orthostatic hypotension

Lithium Carbonate

- Excreted entirely by kidneys
- Decreased renal function can cause toxicity
- Metallic taste in mouth, hand tremors, nausea, muscle weakness, fatigue, blurred vision, lack of coordination, coma

Antipsychotics

- Sedation, anticholinergic effects
- Extrapyrarnidal reactions

Sedative/Hypnotic Drugs

- Increased sensitivity to sedation
- Increased risks of falls/hip fractures

Anti-Parkinsonian Drugs

- Sinemet, Parlodel, Cogentin, Symmetrel
- Dyskinesia, hallucinations, nightmares
- Orthostatic hypotension
- Tsmar in combination with Sinemet can produce liver damage

Anti-Seizure Medications

- Side effects include sedation, GI distress, lack of coordination, dizziness, dermatologic reactions

Aspirin, NSAIDS

- Gastrointestinal bleeding
- Higher doses can cause renal/hepatic toxicity
- Aspirin toxicity can cause confusion, tinnitus

Corticosteroids

- Side effects include
 - Hypertension
 - Peptic ulcer
 - Aggravation of diabetes mellitus
 - Glaucoma
 - Increased risk of infection
 - Addison's disease secondary to suppression of endogenous corticosteroid production

Theophylline

- Smoking speeds theophylline metabolism
- Physicians compensate by increasing maintenance doses
- Patients who stop smoking may become toxic

Drug/Disease Interactions

- Glaucoma + Atropine → Acute Glaucoma
- CHF + Beta blockers → Decompensated CHF
- COPD + Beta blockers → Bronchospasm
- COPD + Opiates → Respiratory failure

Drug/Disease Interactions

- Hypokalemia + Digitalis —————> Arrhythmias
- Peptic Ulcer Disease + NSAIDS —————> GI bleed
- Peptic Ulcer Disease + Anticoagulants ———> GI Bleed

Drug/Disease Interactions

- Prostate Enlargement + Atropine —> Urinary retention
- Conduction disorders + Tricyclics —————> AV Block

Psychiatric Disorders

Depression

- Common in elderly
- May account for symptoms attributed to “senility”
- Should be considered immediate life threat
- Persons over 65 account for 25% of all suicides

Alcoholism

- Much more common than generally suspected
- Onset may be due to bereavement
- May account for deterioration in grooming, unexplained falls, unexplained GI bleeds
- Withdrawal may account for seizures

Neuropsychiatric Problems

- Illness in elderly may precipitate acute episodes of dementia, confusion
- Emotional disorders due to isolation, loneliness, loss of self-dependence, loss of strength, fear of the future may present as physical disorders

Trauma

Trauma

- Increased risk of injury
 - Slow reaction times
 - Diminished vision, hearing
 - Falls
 - Criminal acts

Head Injury

- Common, even with minor trauma
- Increased ICP signs develop slowly
- Patient may have forgotten injury

Cervical Injury

- Osteoporosis
 - Increased injury risk with trivial accidents
- Arthritic changes
 - Narrow spinal canal
 - Increased injury risk

Cervical Injury

- Sudden movement may cause cord injury without fracture
- Decreased pain sensation may mask pain of fracture

Chest Trauma

- Aging decreases chest movement, vital capacity, respiratory reserve capacity
- Organs have less anoxia tolerance
- Nitrous oxide may have greater depressant effect

Chest Trauma

COPD may be present

- Positive pressure ventilation may cause pneumothorax
- Hypoperfusion may cause severe tissue hypoxia

Trauma

- Cardiovascular System
 - Decreased compensation for hypovolemia
 - Move to decompensated or irreversible shock very rapidly
 - Tolerate hypoperfusion poorly, even for short periods
 - Hypoperfusion may lead to CVA, MI, bowel infarcts, renal failure, adult respiratory distress syndrome

Trauma

- Cardiovascular System
 - May be hypoperfused at “normotensive” pressures
 - Chronic beta blocker therapy may mask signs of shock
 - Decreased myocardial reserve may lead to difficulty with fluid resuscitation

Trauma

- Renal System
 - Decreased kidney function may result in fluid overload

Trauma

- Orthopedics
 - 33% of falls cause at least one fracture
 - Most common are hip or pelvis
 - Think about underlying medical causes
 - Positioning/packaging may have to be modified to accommodate physical deformities

Trauma

- Burns
 - Higher mortality than any group except infants
 - Preexisting disease
 - Thin skin
 - Poor immune response
 - Reduction in organ system reserve
 - Inability to meet metabolic demands of burn injury
 - Increased risk of shock
 - Fluid administration critical to prevent renal failure

Geriatric Abuse/Neglect

- Physical or psychological injury of older person by their children or care providers
- Knows no socioeconomic bounds

Geriatric Abuse/Neglect

–Patient

- Older (average age mid-80s)
- Multiple chronic diseases
- Unable to be totally independent
- Often has sleep pattern disruption leading to nocturnal shouting or wandering

Geriatric Abuse/Neglect

- Family has difficulty upholding commitment to care
- Other causes of stress present
 - Financial difficulties
 - Marital discord
 - Work related problems

Geriatric Abuse/Neglect

- Primary findings
 - Trauma inconsistent with history
 - History that changes with multiple tellings
- Management
 - Do NOT confront family
 - Report suspicions to ER physician, law enforcement
 - Reporting is mandatory